

In a further preferred embodiment of the present invention, said epitope comprises the amino acid sequences

D1
KESPLQ (SEQ ID NO: 2), YSSPGSP (SEQ ID NO: 3), PGSPGT (SEQ ID NO: 4), YSSPGSPGTPGS (SEQ ID NO: 5), PKSPSS (SEQ ID NO: 6), YKSPVVS (SEQ ID NO: 7), GDTSPRH (SEQ ID NO: 8), MVDSPQL (SEQ ID NO: 9), PLQTPTE (SEQ ID NO: 10), LKESPLQTPTD (SEQ ID NO: 11), AKSTPTA (SEQ ID NO: 12), IGDTPSL (SEQ ID NO: 13), KIATPRGA (SEQ ID NO: 14), PAKTPPA (SEQ ID NO: 15), APKTPPS (SEQ ID NO: 16), PAKTPPAPKTPPS (SEQ ID NO: 17), SPGTPGS (SEQ ID NO: 18), RSRTPSL (SEQ ID NO: 19), SLPTPPT (SEQ ID NO: 20), RSRTPSLPTPPT (SEQ ID NO: 21), VVRTPPK (SEQ ID NO: 22), VVRTPPKSPSSA (SEQ ID NO: 23), KIGSTENLK (SEQ ID NO: 24), KCGSKDNIK (SEQ ID NO: 25), KCGSLGNIH (SEQ ID NO: 26), KIGSLDNITH (SEQ ID NO: 27).

Please replace the description of Fig 1a, at page 23, with the following rewritten paragraph:

D2
Fig. 1a: Aminoacid sequence of tau (SEQ ID NO: 1) (isoform htau40, Goedert et al., 1989). The motifs SP, TP, IGS and CGS are highlighted.

Please replace the description of Fig 3, at pages 24-25, with the following rewritten paragraph:

D3
Fig. 3: Diagram of constructs K3M, K10, K19, and K17. K19 (99 residues) contains the sequence Q244-E372 (SEQ ID NO: 28) of htau23 plus an N-terminal methionine. This comprises three of the repeats (repeat 1, 3, and 4; repeat 2 is absent in htau23). K10 (168 residues) is similar, except that it extends to the c-terminus of htau23 (L441). K17 (145 residues) contains the sequence S198-E372 (assembly domain starting at the chymotryptic cleavage site, up to end of fourth repeat, but without the second repeat, plus an N-terminal methionine). K3M (335 residues) contains the N-terminal 154 residues of bovine tau4, plus the sequence R221-L441 of htau23 (without second repeat). The location of peptide S198-T220 is indicated in K17. By comparison of the constructs the epitope of AT8 must be in this region (see Fig. 4).

Please replace the description of Fig 5, at page 25, with the following rewritten paragraph:

D4
Fig. 5: Diagram of tryptic peptide S195-R209. The 15 residue peptide (SEQ ID NO: 29) (containing 5 serines and 1 threonine) was labeled with two radioactive phosphates at S199 and S202, as determined by sequencing.

Please replace the description of Fig 41, at page 43, with the following rewritten paragraph:

D5
Fig. 41: Diagram of htau40, highlighting the first microtubule-binding repeat (SEQ ID NO: 30) and the Ser262 that is important for microtubule binding.

IN THE SEQUENCE LISTING

Please replace the sequence listing as originally filed with the substitute sequence listing (pages 1-9) submitted herewith.

II. REMARKS

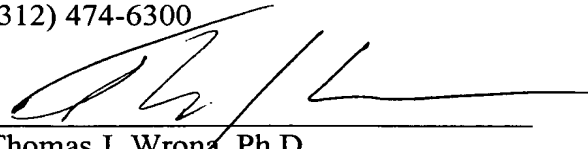
Accompanying the paper copy of the substitute Sequence Listing is a computer-readable version of the sequence listing as well as a "Statement Pursuant to 37 C.F.R. §1.825(a) and (b)." Applicant submits that no new matter has been added via the submission of the Sequence Listing or amendment.

Attached hereto as "Appendix A" is a marked-up version of the changes made to the specification by the present amendments.

Respectfully submitted,

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